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SUBJ: FRENCH SCIENTIFIC AND TECHNOLOGICAL ACTIVITIES -
JUNE 1978

REF: PARIS 17528 AND PREVIOUS

A. THE FOLLOWING BRIEF NEWS SUMMARIES REPRESENT THE
FIFTH IN A TENTATIVE SERIES OF CABLES REPORTING FRENCH
SCIENCE OR TECHNOLOGY RELATED ACTIVITIES. IF FURTHER
INFORMATION ON ANY OF THESE ITEMS IS DESIRED, PLEASE
RESPOND TO THIS EMBASSY, ATTENTION SCIENCE OFFICE, GIVING
SPECIFIC REFERENCE AND NATURE OF DESIRED ADDITIONAL
INFORMATION.

B. TOPICS INCLUDED: FRENCH COMPANY INSPECTION OF NEW
YORK NUCLEAR PLANT; EUROPEAN PATENT OFFICE; FRENCH SOLAR
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ENERGY COMMISSION; CERN PRESIDENT; FRENCH "SUN DAY";
RHONE RIVER POLLUTION; CANCER; ELECTRO-NUCLEAR ENERGY
INFORMATION COUNCIL; "DOUBLE ARIANE" LAUNCHING SYSTEM;
FRENCH ACADEMY OF SCIENCE FOREIGN ASSOCIATES; FESSENHEIM-
1 SHUT DOWN; TRICASTIN PLANT DELAY; "SUPERCRITICAL" WING;
DELEGATION FOR RESEARCH; AMOCO- CADIZ POLLUTION CLEANUP;
MEDITERRANEAN POLLUTION; FRANCO-CHINESE COOPERATION;

EXTERNAL NUCLEAR POLICY COUNCIL MEETING; "CAMEL"
NUCLEAR FUEL.

1. "SOLAR ENERGY COMMISSION", A.F.P. SCIENCES, JUNE 1,
1978, NO. 131, P. 18

"THE NEW FRENCH SOLAR ENERGY COMMISSION, HEADED BY
HERNY DURAND, SHOULD BE OPERATING SOON. THE FUNDS
ALLOCATED FOR THIS COMMISSION WILL BE AVAILABLE AND THE
ADMINISTRATIVE AND SCIENTIFIC COUNCILS SHOULD BE
NOMINATED SHORTLY.

"NAMES OF FOUR PROSPECTIVE MEMBERS OF THE
ADMINISTRATIVE COUNCIL HAVE BEEN SUBMITTED TO THE
MINISTER OF INDUSTRY, ANDRE GIRAUD. THE SECRETARY OF
STATE FOR RESEARCH, PIERRE AIGRAIN, WILL CHOOSE THE 15
MEMBERS OF THE SCIENTIFIC COUNCIL MAY 31."

2. "FRANCE TO CELEBRATE 'SUN DAY' NEXT YEAR", A.F.P.
SCIENCES, JUNE 1, 1978, NO. 131, P. 17

"THE ASSOCIATION "SPACE FOR TOMORROW" WILL ORGANIZE
A 'SUN DAY' NEXT YEAR ON JUNE 21, THE SUMMER
SOLSTICE. LOUIS BERIOT, SECRETARY GENERAL OF THE
ASSOCIATION, SAID ALL FORMS OF SOLAR ENERGY SHOULD BE
PUBLICIZED ALONG WITH THE GOODS AND EVILS OF SUN IN THE
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FIELDS OF LEISURE AND HEALTH. THE OCCASION WOULD ALSO
SERVE TO REMIND EVERYONE OF THE TIES WHICH EXIST BETWEEN
THE SUN AND PHENOMENA OF CULTURE AND CIVILIZATION."

3. "US NUCLEAR: CONTRACT FOR A FRENCH COMPANY", LES
ECHOS, JUNE 2, 1978, P. 6

"THE FRENCH COMPANY INTERCONTROLE, AN AFFILIATE OF
THE FRENCH ATOMIC ENERGY AGENCY (65 PERCENT) AND TECHNIP
(35 PERCENT), HAS BEEN CHOSEN BY THE ROCHESTER GAS AND
ELECTRIC COMPANY TO INSPECT STEAM GENERATORS OF THE WATER
PRESSURIZED NUCLEAR PLANT GINNA I NEAR ROCHESTER, NEW
YORK."

4. "EUROPEAN PATENT OFFICE OPENS", LES ECHOS, JUNE 2,
1978, P. 6

"THE FIRST EUROPEAN PATENT OFFICE OPENED JUNE 1 IN
MUNICH AND WILL SERVE BELGIUM, FRANCE, GREAT BRITAIN,
LUXEMBOURG, THE NETHERLANDS, THE FRG, SWEDEN AND
SWITZERLAND. ITALY, DENMARK AND AUSTRIA WILL JOIN THIS
ORGANIZATION AT A LATER DATE. FIVE COMPANIES HAVE

ALREADY APPLIED FOR PATENTS: BASF (FRG), POLAROID (USA),
AGENCE NATIONALE POUR LA VALORISATION DE LA RECHERCHE

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(FRANCE), OPEL (FRG) AND RENAULT (FRANCE).

5. "CANCER: A PRODUCT WHICH COULD LIMIT THE TOXIC
EFFECTS OF CHEMOTHERAPY", LE FIGARO, JUNE 6, 1978, P. 11

"RESEARCHERS AT THE FRENCH PHARMACODYNAMIC
LABORATORY OF THE CHATENAY-MALABRY PHARMACY FACULTY HAVE
DISCOVERED A NEW PRODUCT, R.L.B., WHICH PERMITS NORMAL-
IZATION OF THE WHITE CORPUSCLES AND BLOOD PLACKETS TO
THEIR INITIAL BALANCE WHEN THEY HAVE BEEN
BROKEN DOWN BY ANTICANCER TREATMENT. R.L.B. STANDS FOR
"REMONTANT LEUCOCYTES BELJANSKY" (REPLENISHING WHITE
BLOOD CORPUSCLES; BELJANSKY IS THE NAME OF ONE OF THE
RESEARCHERS). IT IS EFFECTIVE, ALMOST NON-TOXIC BECAUSE
IT IS NATURAL, AND SHOULD BE INEXPENSIVE TO PRODUCE.
HOWEVER, BEFORE IT CAN BE COMMERCIALIZED, MORE EXTENSIVE
EXPERIMENTS ON ANIMALS OTHER THAN RABBITS AND MICE MUST
BE CARRIED OUT. EVENTUALLY, THE PRODUCT COULD BE TESTED
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ON HUMAN CANCER SUFFERERS."

6. "SPACE COMPANY TO BUILD LAUNCHING SYSTEM 'DOUBLE ARIANE'", A.F.P. SCIENCES, MAY 25, 1978, NO. 130, P. 7

THE EUROPEAN SPACE AGENCY (ESA) HAS CHOSEN AEROSPATIAK IN MUREAUX TO DEVELOP AND COMPLETE THE LAUNCHING SYSTEM 'DOUBLE ARIANE' (SYLDA). THIS SYSTEM WILL ENABLE THE ARIANE ROCKET TO CARRY AND SIMULTANEOUSLY PUT INTO ORBIT TWO 'THOR DELTA' CLASS SATELLITES. THE COMPANY HAS SUB-CONTRACTED TO THE SWEDISH COMPANY SAAB FOR THE DEVELOPMENT AND COMPLETION OF THREE SEPARATION SUBSYSTEMS. THE L 04 FLIGHT OF THE ARIANE ROCKET IS EXPECTED TO PUT IN ORBIT THE MARINE NAVIGATION SATELLITE 'MAROTS'.

7. "INFORMATION COUNCIL ON ELECTRO-NUCLEAR ENERGY MEETS", AGENCE FRANCE PRESSE, JUNE 7, 1978

"THE INFORMATION COUNCIL ON ELECTRO-NUCLEAR ENERGY, COMPOSED OF MAYORS CONCERNED ABOUT CONSTRUCTION OF NUCLEAR PLANTS IN THEIR CITIES, REPRESENTATIVES OF ECOLOGICAL ASSOCIATIONS, MEMBERS OF SCIENTIFIC ACADEMIES AND OTHER QUALIFIED PERSONS, MET RECENTLY. THE COUNCIL HEARD THE DIRECTOR OF THE CENTRAL SERVICE FOR PROTECTION AGAINST IONIZING RAYS (SCPRI) WHO SPOKE OF THE MEASURES HIS SERVICE REGULARLY ORIGINATES AROUND FRENCH NUCLEAR INSTALLATIONS IN ORDER TO ENSURE THE CONTINUING ABSENCE OF ANY RISKS IN THE AREA. SCPRI PUBLISHES AN ANNUAL REPORT WHICH IS AVAILABLE TO COMMUNITIES IN THE VICINITY OF NUCLEAR INSTALLATIONS. THE INFORMATION COUNCIL IS RESPONSIBLE TO THE PRIME MINISTER AND IS PRESIDED OVER BY THE MINISTER OF HEALTH, SIMONE VEIL. ITS PURPOSE IS

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TO INSURE THAT INFORMATION ON THE TECHNICAL, HEALTH, ECOLOGICAL, ECONOMIC AND FINANCIAL ASPECTS OF ELECTRO-NUCLEAR ENERGY IS AVAILABLE TO THE PUBLIC."

8. "POLLUTION OF THE RHONE RIVER", A.F.P. SCIENCES, JUNE 8, 1978, NO. 132, P. 23

"THE ADMINISTRATIVE COUNCIL OF THE ASSOCIATION FOR THE DEFENSE OF THE ENVIRONMENT, THE STRUGGLE AGAINST POLLUTION AND PROTECTION OF THE RHONE VALLEY IS

PESSIMISTIC OVER THE RHONE VALLEY SITUATION.

"RESEARCH DONE AT THE AIX-EN-PROVENCE SCIENCE FACULTY LABORATORY HAS SHOWN THAT THE RHONE ANNUALLY THROWS INTO THE SEA 54,000 TONS OF NITRATES AND 48,000 TONS OF PHOSPHATES. OTHER CHEMICAL POLLUTANTS CAUSED BY MERCURY, SILVER, LEAD AND TITANIUM ARE 2 TO 300 TIMES THE NORME.

"A 5-YEAR PLAN TO DEPOLLUTE THE RIVER IS AT PRESENT UNDER STUDY."

9. "FRENCH ACADEMY OF SCIENCES ELECTS 7 FOREIGN ASSOCIATES", AGENCE FRANCE PRESSE, JUNE 12, 1978

"ON JUNE 12 THE FRENCH ACADEMY OF SCIENCES ELECTED SEVEN FOREIGN ASSOCIATES, FOUR IN THE FIELD OF MECHANICAL SCIENCES AND THREE IN ASTRONOMICS.

LEONID SEDOV, BORN IN RUSSIA AND A MEMBER OF THE SOVIET ACADEMY OF SCIENCES, HAS DONE EXTENSIVE WORK ON STELLAR EXPLOSION THEORY AND ON THE RESOLUTION OF PROBLEMS ARISING FROM LAUNCHING ARTIFICIAL SATELLITES.

SERGE SOBOLEV, ALSO A RUSSIAN AND A MEMBER OF THE

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SOVIET ACADEMY OF SCIENCES, IS A MATHEMATICIAN.

WACLAW OLSZAK, A POLE, IS KNOWN FOR HIS WORK IN THE FIELD OF MECHANICS.

CHARLES STARK DRAPER, AN AMERICAN, WORKS PRIMARILY WITH THE USE OF GYROSCOPES IN MARINE, AERONAUTIC AND SPACE NAVIGATION, ESPECIALLY GUIDANCE OF POLARIS AND APOLLO EQUIPMENT.

MARCEL NICOLET, A BELGIAN, IS AN ASTROPHYSICIST KNOWN FOR HIS WORK ON HIGH ATMOSPHERIC LUMINOUS EMISSIONS AND THOSE CAUSED BY SUPERSONIC FLIGHTS.

EUGENE WEGMAN, A SWISS, IS A GEOLOGIST SPECIALIZING IN TECHTONICS.

VICTOR AMBARTSUMIAN, A RUSSIAN ASTROPHYSICIST, HAS DONE WORK ON UNKNOWN STARS KNOWN AS NOVAE AND STELLAR NEBULA.

10. "FESSENHEIM-1 OPERATIVE AGAIN", A.F.P. SCIENCES, JUNE 15, 1978, NO. 133, P. 16
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"UNIT 1 OF THE FESSENHEIM NUCLEAR PLANT, SHUT DOWN SINCE MAY 12, WAS RESTARTED JUNE 8 AND IS FUNCTIONING AT FULL POWER. DURING THE SHUT DOWN, DAMAGE IN THE NON-NUCLEAR PART OF THE INSTALLATION, IN PARTICULAR AT THE LEVEL OF STEAM DRYERS-HEATERS, WAS DISCOVERED.

"UNIT 2 WAS SHUT DOWN DURING THE NIGHT OF JUNE 9-10 TO MAKE TESTS ON THE SAME PARTS AND TO DO ANY REQUIRED WORK."

11. "EIGHT-MONTH DELAY FOR FIRST REACTOR OF TRICASTIN PLANT", A.F.P. SCIENCES, JUNE 15, 1978, NO. 133, P. 16

"THE FIRST REACTOR OF THE TRICASTIN NUCLEAR PLANT, WHICH WILL SUPPLY THE EURODIF URANIUM ENRICHMENT PLANT, WILL BE ACTIVATED EIGHT MONTHS BEHIND SCHEDULE. THE FRENCH ELECTRICITY COMPANY (EDF) ATTRIBUTES THIS DELAY TO STRIKES WHICH OCCURRED DURING WORK ON THE PLANT AND A STRIKE WHICH WILL TAKE PLACE DURING THE LINKUP TO THE TRICASTIN NETWORK."

12. "AEROSPACE COMPANY TESTS NEW 'SUPERCRITICAL' WING", A.F.P. SCIENCES, JUNE 15, 1978, NO. 133, P. 28

"THE NATIONAL AEROSPACE COMPANY (SNIAS) HAS JUST COMPLETED A LONG SERIES OF FLIGHT TESTS, BEGUN IN 1975 UNDER THE NAME 'OPERATION PEGASUS', TO PERFECT A NEW AIRCRAFT WING.

"THOSE RESPONSIBLE FOR THE OPERATION PRESENTED THEIR RESULTS JUNE 13, STATING THAT THIS THICKER 'SUPER-CRITICAL WING' WILL PERMIT CONSTRUCTION OF CIVIL AND UNCLASSIFIED

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MILITARY TRANSPORT PLANES MORE ECONOMICALLY. THE THICKNESS OF THE WING WILL INCREASE MILES PER FUEL CONSUMPTION AND THUS THE ECONOMIC RETURN."

13. THIS EDITION OF SCIENCE NEWS FROM PARIS IS THE FIFTH AND WE NOW ASK THAT OUR READERS TELL US WHO THEY ARE AND GIVE US SUGGESTIONS FOR IMPROVING THE USEFULNESS OF THIS REPORTING EFFORT. BEFORE YOU READ ANY FURTHER IN THIS REPORT, PLEASE WRITE A BRIEF NOTE TO US GIVING YOUR NAME, OFFICE NAME, ADDRESS, DATE YOU ARE READING THIS REPORT AND YOUR SUGGESTIONS FOR IMPROVING IT. PLEASE ADDRESS YOUR NOTE TO SCIENCE OFFICE, AMERICAN EMBASSY, PARIS. YOUR BRIEF EFFORT WILL HELP US CONTINUE OUR WORK IN A MORE USEFUL MANNER.

14. "AIGRAIN TO GIVE NEW LIFE TO DELEGATION FOR RESEARCH", LE MONDE, JUNE 15, 1978, P. 13

"ROLAND MORIN HAS BEEN NOMINATED TO HEAD THE GENERAL DELEGATION FOR SCIENTIFIC AND TECHNICAL RESEARCH (DGRST) JUNE 14, SUCCEEDING THE LATE BERNARD GREGORY. PREVIOUSLY THE DIRECTOR OF DGRST WAS A SCIENTIST RESPONSIBLE TO A POLITICAL MINISTER OR SECRETARY OF STATE. WITH THE APPOINTMENT OF PIERRE AIGRAIN AS SECRETARY OF STATE FOR RESEARCH, THIS IS NO LONGER THE CASE. MR. AIGRAIN, WHO WAS DELEGATE GENERAL FOR RESEARCH FROM 1968 TO 1973, HAS EXTENSIVE EXPERIENCE IN THE FIELD OF SCIENCE. THEREFORE THE DIRECTION OF DGRST HAS BEEN TURNED OVER TO AN ADMINISTRATOR.

"THE FUNDAMENTAL RESPONSIBILITIES OF DGRST, COORDINATION AND EVALUATION OF THE FRENCH RESEARCH EFFORT AS WELL AS PROSPECTIVE STUDIES, HAVE EXPANDED

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OVERTIME TO INCLUDE DIRECT MANAGEMTN OF CERTAIN FUNDS.
85 PERCENT OF AID FUNS (319 MILLION FRANCS IN 1978),
SLOTTED FOR ENCOURAGING DEVELOPMENT OF INDUSTRIAL
APPLICATIONS OF RESEARCH, IS UNDER DIRECT CONTROL OF THE
MINISTRY OF INDUSTRY. THE REMAINING 15 PERCENT, AN
'INTERMINISTERIAL RESERVE' ADMINISTERED BY DGRST, GIVES
THE SECRETARY OF STATE FOR RESEARCH A 'FREEDOM OF
MOVEMENT' TO ENCOURAGE SECTORS JUDGED IMPORTANT."

15 CONFERENCE ON MEDITERRANEAN POLLUTION: A
PESSIMISTIC REPORT", A.F.P. SCIENCES, JUNE 22, 1978,
NO. 134. P. 30

"PARTICIPANTS IN THE 3RD CONFERENCE OF THE UNION OF
MEDITERRANEAN CITIES STATED THAT THE PROTECTION OF THE
MEDITERRANEAN WILL DEPEND UPON HOW MUCH LITTORAL CITIES,
STATES AND INTERNATIONAL ORGANIZATIONS ARE WILLING TO
CONTRIBUTE, FINANCIALLY AND OTHERWISE. THE MEDITERRA-
NEAN'S ABILITY TO PURIFY ITSELF IS LIMITED; THEREFORE,
SOMETHING MUST BE DONE. HOWEVER, THE CONFERENCE'S
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RESULTS WERE LIMITED TO RESOLUTIONS AND GOOD INTENTIONS
BUT NO COMMON, CONCRETE ACTIONS. THE ORGANIZERS OF THE
CONFERENCE UNDERLINED THE IMPORTANCE OF EARLY
DETECTION OF POLLUTANTS AND PURFYING PROGRAMS."

16. "IFP-CHINESE COOPERATION AGREEMENT", A.F.P.
SCIENCES, JUNE 22, 1978, NO. 134, P. 7

"ON JUNE 15 THE FRENCH PETROL INSTITUTE (IFP) AND
ITS CHINESE COUNTERPART CONCLUDED A COOPERATION

AGREEMENT WHICH WILL COVER TRAINING OF CHINESE IN FRANCE AND PROVIDING IFP EXPERTS TO HOLD CONFERENCES AND SEMINARS IN CHINA. THE CHINESE, ACCORDING TO JEAN-PIERRE CAPRON, MINISTRY OF INDUSTRY FUELS DIRECTOR, WHO RECENTLY SPENT 10 DAYS IN CHINA CONCLUDING THIS AGREEMENT, ARE EAGER TO MODERNIZE THEIR PETROL INDUSTRY AND VERY INTERESTED IN THE TRANSFER OF ADVANCED TECHNOLOGIES IN THIS FIELD. CHINA INTENDS TO INCREASE ITS ANNUAL OIL PRODUCTION FROM THE CURRENT 90 MILLION TONS TO 400 MILLION TONS BY THE YEAR 2000."

17. "EIGHTH MEETING OF THE EXTERNAL NUCLEAR POLICY EOUNCIL", A.F.P. SCIENCES, JUNE 22, 1978, NO. 134, P. 7

"DURING THE JUNE 15 MEETING OF THE EXTERNAL NUCLEAR POLICY COUNCIL HELD AT THE ELYSEE PALACE, MEMBERS OF THE COUNCIL DISCUSSED THE INTERNATIONAL SITUATION IN REGARD TO NON-PROLIFERATION OF NUCLEAR ARMS, THE PROBLEMS ARISING FROM THE DEVELOPMENT OF FUEL CYCLE INSTALLATIONS, THE WORK OF THE INTERNATIONAL FUEL CYCLE EVALUATION CONFERENCE (INFCE) AND THE PROBLEMS ARISING FROM THE MANAGEMENT OF NUCLEAR PRODUCTS, THEIR STOCKPILING AND UNCLASSIFIED

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USE."

18. "FRENCHMAN ELECTED PRESIDENT OF CERN", AGENCE FRANCE PRESSE, JUNE 23, 1978

"PROFESSOR JEAN TEILLAC WAS ELECTED PRESIDENT OF THE COUNCIL OF THE EUROPEAN NUCLEAR RESEARCH ORGANIZATION DURING ITS 61ST SESSION HELD IN GENEVA THURSDAY AND FRIDAY. PROFESSOR TEILLAC HAS BEEN THE HIGH COMMISSIONER OF THE FRENCH ATOMIC ENERGY AGENCY (CEA) SINCE 1975 AND TEACHES AT THE PIERRE AND MARIE CURIE INSTITUTE AND THE RADIUM INSTITUTE."

19. "NEW FUEL 'CARMEL' DIMINISHES NUCLEAR PROLIFERATION RISKS", AGENCE FRANCE PRESSE, JUNE 23, 1978

"FRENCH ATOMIC ENERGY AGENCY (CEA) SCIENTISTS AND TECHNICIANS HAVE MADE NEW PROGRESS IN PERFECTING NUCLEAR FUELS FOR MEDIUM AND LOW LEVEL REACTORS WHICH WOULD CONSIDERABLY REDUCE THE RISKS OF PROLIFERATION. THESE NEW FUELS, CALLED CARMEL DUE TO THE APPEARANCE OF SANDWICHED LAYERS OF ALUMINUM AND 10 PERCENT ENRICHED URANIUM, HAVE BEEN TESTED OVER THE LAST THREE YEARS IN THE SACLAY NUCLEAR STUDIES CENTER'S RESEARCH REACTOR 'OSIRIS'.

"FRANCE WILL BE ABLE TO SELL RESEARCH REACTORS ABROAD
WITHOUT RISKING PROLIFERATING NUCLEAR ARMS CAPABILITIES
BECAUSE 90 PERCENT ENRICHED URANIUM IS REQUIRED TO
PRODUCE SUCH ARMS. TO ENRICH URANIUM FROM 10 PERCENT
TO 90 PERCENT IS IMPOSSIBLE WITHOUT KNOWLEDGE OF THE
NTENDS TO INCREASE ITS
ANNUAL OIL PRODUCTION FROM THE CURRENT

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EXTREMELY COMPLICATED ENRICHMENT TECHNOLOGY."

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